

# EAZA Yearbook 2007/2008

Please note that this document is one chapter of the EAZA Yearbook 2007/2008. Please visit the EAZA website to download the other chapters or the complete Yearbook:

<http://www.eaza.net/activities/cp/Pages/yearbook.aspx>

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## EAZA Equid TAG

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## EAZA Equid TAG Annual Report 2007 - 2008



### 1. Information on organisation, structure and activities of the TAG

- TAG chair:** Achim Winkler, Duisburg [winkler@zoo-duisburg.de](mailto:winkler@zoo-duisburg.de)
- TAG vice-chair:** Ulrike Rademacher, Stuttgart [ulrike.rademacher@wilhelma.de](mailto:ulrike.rademacher@wilhelma.de)  
Waltraut Zimmermann, Koln [wa.zi@t-online.de](mailto:wa.zi@t-online.de)
- TAG members:** Stephan Hering-Hagenbeck (Hamburg)  
Evzen Kus (Praha)  
Tanya Langenhorst (Marwell)  
Anna Mekarska (Krakow)  
Richard Osterballe (Givskud)  
Olivier Pagan (Basel)  
Beatrice Steck (Basel)
- TAG advisors:** **General**  
Andreas Bernhard, Zoologischer Garten Leipzig  
Vera Eisenman, Museum National d'Historie Naturelle Paris  
Marjo Hoedemaker, Dierenpark Amersfoort  
Lydia Kolter, Zoologischer Garten Koln  
Claus Pohle, Tierpark Berlin-Friedrichsfelde  
Arnd Schreiber, Heidelberg University
- Behavioural**
- Taxonomy**
- Veterinary**
- Nutritional**
- Conservation**
- Research**
- Educational**
- Current EEPs:** Somali wild ass (*Equus africanus somalicus*)  
Przewalski's horse (*Equus ferus przewalskii*)  
Grevy's zebra (*Equus grevyi*)  
Turkmenian kulan (*Equus hemionus kulan*)  
Persian onager (*Equus hemionus onager*)  
Hartmann's mountain zebra (*Equus zebra hartmannae*)
- Current ESBs:**
- TAG meeting:** Date of last meeting: 19 September 2008  
Last meeting hosted at Antwerpen Zoo (Royal Zoological Society of Antwerp).
- Regional**
- Collection Plan:** Has a RCP been published? Yes  
Most recent edition published in 2003.
- Publications:** Langenhorst, T., Parker, G., Woodfine, T. 2007. Grevy's zebra conservation 2007. Marwell Preservation Trust, Marwell, UK, 8 pages.
- Langenhorst, T. 2007. International Studbook for the Grevy's zebra. Marwell Preservation Trust, Marwell, UK.
- Langenhorst, T. 2007. International Studbook for the Hartmann mountain zebra. Marwell Preservation Trust, Marwell, UK.
- Parker, G. & Langenhorst, T. 2007. Developing Effective Monitoring and Building Capacity for Grevy's Zebra Conservation in Kenya. Contributing to the Conservation of Grevy's Zebra & its Semi-arid Ecosystem. Marwell Preservation Trust, Marwell, UK.

### 2. Information on developments during 2007 - 2008

2007

Big discussions evolved around the so-called horse passport, which is legally required for domestic horses according to EU regulations, and which is an essential document to be included during transports. Some zoos experienced problems when transporting their wild equids, due to the request of their local authorities to provide a horse passport for these equids. Although the horse passport has been developed for the use with domestic horses, the legal documentation can also be interpreted for these passports also to be valid for wild equids, such as wild horses, zebras and asses. Discussions are under way, if and when such passports are needed for wild equids.

Following the election of a number of new species coordinators for several of the equid EEPs, all of these EEPs are functioning extremely well. This includes difficult programmes, such as the Kulan EEP, where most of the holders are situated in Eastern Europe, with communication due to the language barrier being the most difficult problem. Separate meetings were held for the Onager EEP, the Kulan EEP and the Hartmann mountain zebra EEP during the EAZA Annual Conference at Warsaw.

Ongoing conservation programmes include among others the successful reintroduction programme of the Przewalski's horse in central Asia, as well as in semi-reserves in Europe, and the conservation of the Grevy's zebra in Kenya. Following the initial release of Przewalski's horses in two protected sites in Mongolia, additional reintroduction efforts are now under way in north-western China and in Kazakhstan. To date more than 200 Przewalski's horses roam free in the wild in Asia. In Mongolia research work is ongoing on the status of the Mongolian wild ass, the population of which has experienced a dramatic decline in recent years.

The conservation efforts regarding the Grevy's zebra are largely being implemented by Marwell Zoo and associates in the Lewa Wildlife Conservancy in Kenya. The work not only includes the conservation of the Grevy's zebra on this site and elsewhere in eastern Africa, but also the provision of the necessary infrastructure, the implementation, the education and the training of the local people, and ongoing research work on the species.

In spite of all political and logistical problems efforts are under way to also develop a conservation link with the Iranian authorities to safeguard the threatened Persian onager.

Likewise, Zoo Beauval and associated zoos try to establish a conservation camp for the Somali wild ass in Djibouti.

2008

Following the implementation of the Council Directive 90/426/EEC and 90/427/EEC as regards the methods for identification of equidae, discussions are under way to develop a so-called horse passport for all equids, domestic and wild alike. The regulation for horse passports to be used for all transports of equids comes into force in July 2009.

Apart from an Equid TAG meeting, separate meetings for the Onager EEP and the Somali Wild Ass EEP were held during the EAZA Annual Conference at Antwerp.

The Przewalski's horse EEP was successfully evaluated in 2008.

A three day workshop was held in Mongolia to discuss the future of the Przewalski's horse within the country. A total of 26 participants from six different countries attended the meeting. The main focus on the future work needs to include a better protection of the available habitat, a better involvement of the local people in the conservation work and an exclusion of the domestic horses from the protected reserves, in which the Przewalski's horses occur.

Ongoing conservation programmes include among others the successful reintroduction programme of the Przewalski's horse in central Asia, as well as in semi-reserves in Europe, and the conservation of the Grevy's zebra in Kenya. Additional conservation work is focussing on the Somali wild ass and on the Persian onager.

Successful reintroduction projects for Przewalski's horses are under way in Mongolia, China and Kazakhstan. To date more than 200 Przewalski's horses roam free in the wild in Asia.

The Marwell Preservations Trust's conservation work regarding the Grevy's zebra in the Lewa Wildlife Conservancy and other reserves in Kenya is ongoing with the support from various other zoos and wildlife agencies.

A similar project is being implemented by Beauval Zoo and partner authorities for the Somali wild ass in Djibouti.

Efforts are also under way to establish a conservation link with the Iranian authorities to safeguard the threatened Persian onager. Changes in personnel within the Iranian ministries have so far prevented a get-together, which has long been planned by Tierpark Hagenbeck as the EEP coordinator for the species.

### 3. TAG goals for 2009

- To guarantee the ongoing development of the various breeding programmes within the TAG, in order to ensure the best possible genetic mix of the various captive populations.
- To interest more zoos to keep some of the highly threatened equid species (e.g. Somali wild ass, Hartmann's mountain zebra, onager) instead of some of the more common species (e.g. Plains zebra, kiang).
- To establish a closer link between the EAZA and the AZA Equid TAG.
- To continue the support of the reintroduction programmes of the Przewalski's horse in Central Asia.
- To continue the conservation work of the Grevy's zebra in Eastern Africa.
- To further strengthen the conservation work and/or the research of the Mongolian wild ass in Mongolia, the Persian onager in Iran and the Somali wild ass in East Africa.
- To provide technical expertise, training in veterinary medicine, husbandry, population management, research, monitoring skills for conservation projects.
- To provide funds and equipment for conservation projects.
- To provide research on evaluation of future reintroduction programs.
- To consider additional conservation work on other threatened equids, including the kulan or the Hartmann's mountain zebra.
- To establish a comprehensive list of publications on equids on the EAZA webpage.
- To develop a horse passport according to the new EU regulations to guarantee an easy and efficient transfer of wild equids.



# Somali wild ass

## EEP Annual Report 2007 - 2008



### 1. Programme information

Somali wild ass

*Equus africanus somalicus*

**EEP established in 1989.**

#### Goal(s)

#### Additional comments

The exact gene diversity is not known because of gaps in the pedigree. It is hoped that these gaps can be filled by molecular genetic studies (see research), but it is certainly less than 90%.

Given the status in the wild, it is not possible to import new founders and there are no more founders in captivity.

The goal is thus to breed as many Somali wild asses as possible to maintain a demographically healthy population and maintain as much gene diversity as long as possible.

### 2. Programme personnel

#### Species Coordinator

Olivier Pagan (Basel)

#### Species Committee members

Friederike von Houwald (Basel)

Claus Pohle (Berlin-tierpark)

Anja Dube (Chemnitz)

Ludek Culik (Dvur-kralove)

Heiner Engel (Hannover)

Lubomir Melichar (Liberec)

Peter Bircher (Marwell)

Dag Enke (Nurnberg)

Roland Meury (Oberwil)

Marianne Bilbaut (Sigean)

Ulrike Rademacher (Stuttgart)

#### Veterinary advisor

Christian Wenker (Basel)

### 3. Activities

#### Species Committee

Last election: 2004

Last meeting: 19 September 2008 Antwerpen

#### Conservation activities

Liberec Zoo, Plock Zoo and Basel Zoo support the IUCN SSC Equid Chair in her research on the behaviour and ecology of the Somali wild ass and the protection of this species in Eritrea and Ethiopia. Her primary research goals are to collect data on reproductive biology, population dynamics, social organisation and feeding ecology. By recognising individual animals, information on natality and survivorship can be gained. The genetic variability will also be investigated and faecal samples taken to see whether inbreeding with domestic donkeys has occurred.

Further goals of her work are to determine the species' current range, the availability of water and food, and to quantify the use of resources by both the Somali wild asses and the domestic livestock of the Afar people. All this information will be used to develop a management plan for the region in order to protect the Somali wild ass and their habitat and to assure the sustainable use of the natural resources and a livelihood for the local population and their livestock.

Cathy Pelsy from Diboukoui and Parc Zoologique de Thoiry is planning a survey with Somali wild ass expert Fanuel Kebede and others to see whether this species still survives in the border area of Ethiopia and Djibouti.

#### Research activities

Faecal and blood samples from animals with unknown ancestry were collected and their DNA extracted. By using satellite markers, pedigree certification and the determination of genetic diversity will be carried out by Dr. Albano Beja-Pereira from CIBIO/UP - Research Center in Biodiversity and Genetic Resources, Universidade do Porto, Portugal.

#### 4. Publications

##### Studbook

Recent edition: 2008

Next edition: 2009

##### Husbandry guidelines

Published in 2000.

#### 5. Status

##### Status and developments over the year 2007 - 2008

Somali wild ass  
*Equus africanus somalicus*

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
*		ALWABRA	2.6.0	2.3.0 (0.0.0)	2.0.0	0.0.0	0.0.0	0.0.0	0.1.0	6.8.0
*		ATHINAI	0.0.0	0.0.0 (0.0.0)	1.1.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		BASEL	1.6.0	1.1.0 (0.0.0)	1.0.0	1.3.0	0.0.0	0.0.0	0.0.0	2.4.0
		BERLIN-TIERPARK	2.9.0	2.1.0 (0.0.0)	0.0.0	0.1.0	0.0.0	2.0.0	1.1.0	1.8.0
		CABARCENO	5.1.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	5.2.0
		CHEMNITZ	3.3.0	2.0.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	0.0.0	5.2.0
		DVUR-KRALOVE	2.4.0	1.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.5.0
		GDANSK	3.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	2.0.0
		HANNOVER	1.1.0	2.0.0 (1.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	2.2.0
		KESSINGLAND	2.0.0	0.0.0 (0.0.0)	0.1.0	1.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		KLEVE_NE	2.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.0.0
		LIBEREC	3.7.0	4.0.0 (1.0.0)	0.1.0	1.3.0	0.0.0	0.0.0	0.0.0	5.5.0
		MARWELL	4.3.0	0.2.0 (0.0.0)	0.0.0	2.0.0	0.0.0	1.0.0	0.1.0	1.4.0
		MONTPPELLIER	3.0.0	0.0.0 (0.0.0)	0.1.0	2.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		NURNBERG	1.4.0	0.0.0 (0.0.0)	1.0.0	1.0.0	0.0.0	0.0.0	0.2.0	1.2.0
		OBERWIL	2.11.0	2.7.0 (0.1.0)	2.1.0	2.3.0	0.0.0	0.0.0	0.0.0	4.15.0
		PLOCK	1.1.0	0.0.1 (0.0.1)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		RAMAT-GAN	2.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.0.0
		SIGEAN	6.7.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	7.7.0
		ST-AIGNAN	1.0.0	0.0.0 (0.0.0)	1.1.0	0.0.0	0.0.0	0.0.0	0.0.0	2.1.0
		STUTTART	1.5.0	0.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.6.0
		USTI-NAD-LABEM	3.3.0	2.1.0 (0.0.0)	0.1.0	0.1.0	0.0.0	0.0.0	1.0.0	4.4.0
*		WOBURN	0.0.0	0.0.0 (0.0.0)	1.2.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		Total (23)	50.71.0	18.17.1 (2.1.1)	10.12.0	10.12.0	0.0.0	3.0.0	3.5.0	60.82.0

##### Summary

The EEP population has been growing steadily in the past years. To maintain a healthy and viable captive population of this most threatened equid species, this growth has to be maintained and new holders are thus urgently needed in Europe.

The bachelor groups consisting of sub-adult or young animals continue to work fairly well. Some of these bachelors could be moved into a breeding situation, which illustrates the great importance of bachelor groups in this EEP.

More groups of future reproductive stallions are needed as are breeding groups.

In 2008, two surplus stallions were culled.

For stallions with high mean kinship, we recommend culling.

For stallions with low mean kinship, we need more bachelor groups.



## Somali wild ass EEP Annual Report 2007 - 2008



### Notes

EEP coordinator's assistant: Beatrice Steck, Basel zoo

#### Programme difficulties

- some institutions are not willing to follow the recommendations of the EEP coordinator, i.e. stallions are given to animal dealers.
- unknown pedigree of the animals imported from Hai-Bar, Israel, to Europe
- keeping adult stallions in bachelor groups
- problem of surplus stallions
- finding new holders in Europe

#### Programme recommendations

- find new holders within EAZA for breeding groups and bachelors
- continue breeding and growth of the EEP population
- implement the breed & cull strategy



# Przewalski's horse

## EEP Annual Report 2007 - 2008



### 1. Programme information

Przewalski's horse

*Equus ferus przewalski*

**EEP established in 1985.**

#### Goal(s)

Percentage of gene diversity 90% saved in 100 years.

### 2. Programme personnel

#### Species Coordinator

Waltraut Zimmermann (Köln)

#### Species Committee members

Tatjana Zharkikh (Askaniyanova\_NE)

Kerstin Jurczynski (Duisburg)

Leif Blomqvist (Helsinki)

Istvan Sandor (Hortobagy\_NE)

Ryszard Topola (Lodz)

Tanya Langenhorst (Marwell)

Marleen Huyghe (Mechelen)

Jean-Luc Berthier (Paris-jardin)

Evzen Kus (Praha)

Sandra Langguth (Salzburg-zoo)

#### Behavioural advisor

Lydia Kolter (Köln)

### 3. Activities

#### Species Committee

Last election: 2005

Last meeting: 19 September 2008 Antwerpen

#### Conservation activities

Landscape management and nature conservation in Eelmoor-Marsh (UK), Clocaenog Forest (UK), Berlin-Doberitzer Heide (DE), Sprakel (DE), Neusiedler See NP (AT), Hortobagy NP (HU) and Askania Nova (UA).

Supporting Przewalski's Horse Reintroduction Efforts in China. Development of an Integrated Conservation Project with the Wild Horse Breeding Centre in Xinjiang Province, China. Köln Zoo, National Zoological Park Washington. LHF - Training of Chinese staff in the Kalameili Nature Reserve by Joep van de Vlasakker.

#### Research activities

Brabender, Kristin PhD: The importance of large grazers in terrestrial ecosystems: reference experiments on nutrition, foraging, physiology and metabolism of auroxen (*Bos primigenius f. taurus*) and Przewalski's horses (*Equus ferus przewalskii*) in a semi-reserve of the national Park Hortobágy (Hungary).

Schmitz, P.: Strategies of harem leaders in Przewalski's horses (*Equus ferus przewalskii*).

Czetö, C.: Data on habitat utilization and food intake of Przewalski's horses.

Pantel, N.: Rough survey of the second site selected for the re-introduction of Przewalski's horses at Kalameili.

Yi, L.: PhD: Initial Assessment of Mining Effects on Hydrological System in Kalameili Nature Reserve.

Zukosky, M. et al.: Socio-Economic Survey Questionnaire, conducted with families while they are passing through Qia Ku Er Tu to reach the winter pastures in the Kalameili Nature Reserve.

### 4. Publications

#### Studbook

Recent edition: 2008

Next edition: 2009

#### Husbandry guidelines

Published in 2005.

## 5. Status

### Status and developments over the year 2007 - 2008

Przewalski's horse  
*Equus ferus przewalski*

New	reply	No Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		ANTWERPEN	2.4.0	0.0.0 (0.0.0)	0.0.0	2.0.0	0.0.0	0.0.0	0.2.0	0.2.0
		ASKANIYANOVA_NE	39.42.0	8.5.0 (2.0.0)	0.0.0	1.0.0	0.2.0	1.1.0	3.1.0	40.47.0
*		AUGSBURG	0.0.0	0.0.0 (0.0.0)	3.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.0.0
		BOJNICE	0.4.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	0.3.0
*		BUSSOLENGO	0.0.0	0.0.0 (0.0.0)	2.0.0	0.0.0	1.0.0	0.0.0	0.0.0	3.0.0
		CHARD	2.0.0	0.0.0 (0.0.0)	2.0.0	0.0.0	0.0.0	0.0.0	0.0.0	4.0.0
		CHEMNITZ	1.4.0	1.0.0 (1.0.0)	0.0.0	0.2.0	0.0.0	0.0.0	0.0.0	1.2.0
		CHESTER	1.3.0	0.1.0 (0.1.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.3.0
		COLWYN-BAY	0.3.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.3.0
		DUISBURG	0.4.0	0.0.0 (0.0.0)	0.2.0	0.1.0	0.0.0	0.2.0	0.0.0	0.3.0
		GIVSKUD	1.3.0	0.2.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	1.4.0
		HAN-SUR-LESSE	2.1.0	1.1.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.1.0	2.1.0
		HELSINKI	3.4.0	2.1.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	3.2.0	2.2.0
		HERBERSTEIN	1.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		HILVARENBEEK	1.5.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.3.0	1.2.0
		HOOR	1.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	0.2.0
		HORTOBAGY_NE	40.43.0	21.26.2 (3.7.2)	1.1.0	0.0.0	0.0.0	0.0.0	3.0.0	56.63.0
		HUNNEBOSTRAND	1.4.0	0.0.0 (0.0.0)	1.1.0	0.0.0	0.0.0	0.0.0	1.1.0	1.4.0
		INNSBRUCK	2.0.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	2.1.0
		JEREZ-FRONTERA	2.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	1.0.0	0.0.0	1.2.0
		KARLSRUHE	1.4.0	1.3.2 (0.0.2)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	1.7.0
		KERKRADE	0.6.0	1.1.0 (0.0.0)	1.0.0	0.1.0	0.0.0	0.0.0	0.0.0	2.6.0
		KINGUSSIE	3.5.0	3.4.0 (0.0.0)	0.0.0	2.0.0	0.0.0	0.0.0	1.2.0	3.7.0
		KOLN	2.8.0	3.2.0 (0.0.0)	1.0.0	2.3.0	0.0.0	0.0.0	1.0.0	3.7.0
		KOLN-SPRAKEL_NE	5.0.0	0.0.0 (0.0.0)	3.0.0	1.0.0	0.0.0	0.0.0	2.0.0	5.0.0
		LANGNAU	8.10.0	3.4.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.1.0	2.1.0	9.12.0
		LEIPZIG	2.7.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.7.0
		LISBOA-PV_NE	3.4.0	0.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	1.0.0	1.3.0	1.2.0
		LODZ	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	1.1.0	0.0.0	0.0.0
		MARWELL	1.5.0	2.1.0 (1.0.0)	1.0.0	1.0.0	0.0.0	0.0.0	0.0.0	2.6.0
		MARWELL-EELMOOR_NE	4.0.0	0.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	3.0.0
		MAUTERN_NE	4.0.0	0.0.0 (0.0.0)	2.0.0	2.0.0	0.0.0	0.0.0	0.0.0	4.0.0
		MOSKVA	2.2.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	2.3.0
		MUNSTER	1.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		MYKOLAYIV	2.3.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	2.0.0	1.3.0
		NEUMUNSTER	3.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.0.0
		NEUWIED	3.0.0	0.0.0 (0.0.0)	3.0.0	2.0.0	0.0.0	0.0.0	0.0.0	4.0.0
		OBTERRE	1.3.0	0.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.2.0	1.2.0
		ORG-IZW	1.5.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.5.0
		PARIS-JARDIN	0.4.0	2.0.1 (0.0.1)	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.4.0
		PEAUGRES	0.4.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.4.0
		PRAHA	3.3.0	0.1.0 (0.0.0)	0.0.0	2.2.0	0.0.0	0.0.0	0.0.0	1.2.0
		PRAHA-DOB_NE	6.7.0	0.0.0 (0.0.0)	0.2.0	0.1.0	0.0.0	0.0.0	2.1.0	4.7.0
		SALZBURG-ZOO	1.6.0	1.1.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	0.1.0	2.5.0
		SANTILLANA	2.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.0.0
		SPRINGE_NE	3.7.0	3.3.0 (0.0.0)	0.2.0	2.0.0	0.0.0	0.0.0	0.1.0	4.11.0
		STUTTGART	2.8.0	0.0.0 (0.0.0)	0.0.0	2.1.0	0.0.0	0.0.0	0.0.0	0.7.0
		TALLINN	4.7.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	4.7.0
		THOIRY	4.0.0	0.0.0 (0.0.0)	0.0.0	2.0.0	0.0.0	0.0.0	0.0.0	2.0.0
*		TREGOMEUR	0.0.0	0.0.0 (0.0.0)	3.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.0.0



## Przewalski's horse EEP Annual Report 2007 - 2008



WARSZAWA	3.0.0	0.0.0 (0.0.0)	0.2.0	1.0.0	0.0.0	0.0.0	1.0.0	1.2.0
WHIPNADE	0.6.0	0.1.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.2.0	0.0.0	1.5.0
WIEN-NEUSIED_NE	2.6.0	2.1.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.0.0	3.6.0
WINTERTHUR_NE	3.7.0	0.2.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	1.2.0	1.7.0
WOBURN	3.3.0	2.2.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	5.5.0
* WUSTERMARK_NE	3.7.0	3.4.0 (0.0.0)	1.2.0	1.0.0	0.0.0	0.0.0	1.1.0	5.12.0
Total (56)	185.270.0	59.68.5 (7.8.5)	28.14.0	28.14.0	1.2.0	4.7.0	25.26.0	209.299.0

### Discrepancy notes

Przewalski's horse  
*Equus ferus przewalski*

ASKANIYANOVA_NE	The status on 1 January 2007 is 39.42.0 instead of 38.43.0 as listed on 31 December 2006.
HILVARENBEEK	The status on 1 January 2007 is 1.5.0 instead of 1.6.0 as listed on 31 December 2006.
LISBOA-PV_NE	The status on 1 January 2007 is 3.4.0 instead of 4.4.0 as listed on 31 December 2006.
PRAHA	The status on 1 January 2007 is 3.3.0 instead of 2.4.0 as listed on 31 December 2006.

### Summary

The program is running well, but breeding must be limited.

### Notes

Population management is difficult as breeding must be limited, due to capacity problems. Especially for stallions not enough places can be found.

The reintroduction projects in the Hustai NP and in the Gobi B NP in Mongolia are running satisfactory. In China not all horses are permanently released, but most of them stay in large enclosures during winter time.



# Grevy's zebra

## EEP Annual Report 2007 - 2008



### 1. Programme information

Grevy's zebra

*Equus grevyi*

**EEP established in 1990.**

#### Goal(s)

Percentage of gene diversity 90% saved in 100 years.

Target population size A= 200 and B= 260

### 2. Programme personnel

#### Species Coordinator

Tanya Langenhorst (Marwell)

#### Species Committee members

Marjo Hoedemaker (Amersfoort)

Ludek Culik (Dvur-kralove)

Lars Versteeg (Hilvarenbeek)

Lennart Sunden (Kolmarden)

Waltraut Zimmermann (Koln)

Ian Goodwin (Marwell)

Marleen Huyghe (Mechelen)

Ulrike Rademacher (Stuttgart)

Jens Lilleor (Aalborg)

#### Behavioural advisor

Ulrike Rademacher (Stuttgart)

#### Veterinary advisor

Jacques Kaandorp (Hilvarenbeek)

### 3. Activities

#### Species Committee

Last election: 2007

Last meeting: 5 October 2006 Madrid-zoo

#### Conservation activities

Wild status: Listed as Endangered as Grevy's Zebra is estimated to have declined by more than 50% over the past 18 years based on direct observation and potential/actual levels of exploitation. In addition, the current total population is estimated at 750 mature individuals, with the largest subpopulation estimated at 255 mature individuals.

In 2008 the first ever Conservation and Management Strategy for Grevy's Zebra in Kenya, 2007-2011 has been formulated by Kenya's National Grevy's Zebra Task Force for the Kenya Wildlife Service.

A first output of this new strategy was a national Grevy's zebra survey which took place from the 25.-29. November 2008 which counted 2406 individuals in Kenya. This indicates that Grevy's zebra numbers have stabilised, possibly even increased in Kenya. This shows how important the conservation work of all organisations and communities is for the Grevy's zebra. The far northern part of the Grevy's zebra range was excluded from the survey as a very low density of Grevy's zebra makes this area difficult to survey and would have exceeded the available funding. However, the Grevy's zebra Technical Committee is planning alternative means to cover this important northern zone in 2010.

#### Research activities

While Kenyan students are carrying out ecological projects in Kenya for the benefit of Grevy's zebra, an EEP investigation into the cause of death in EEP animals is nearing completion. Results and a first report on this are expected soon.

### 4. Publications

#### Studbook

Recent edition: 2008

Next edition: 2009

#### Husbandry guidelines

Published in 2000.

## 5. Status

### Status and developments over the year 2007 - 2008

Grevy's zebra  
*Equus grevyi*

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		AALBORG	1.2.0	2.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	1.0.0	3.2.0
		AMERSFOORT	4.5.0	2.1.0 (0.0.0)	1.0.0	4.0.0	0.0.0	0.0.0	0.2.0	3.4.0
		AMSTERDAM	1.4.0	2.1.0 (1.1.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	1.4.0
		ASKANIYANOVA_NE	1.1.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		AUGSBURG	2.4.0	1.3.0 (0.1.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	2.6.0
		AVINTES	1.0.0	0.0.0 (0.0.0)	3.0.0	0.0.0	0.0.0	0.0.0	4.0.0	0.0.0
		BANHAM	1.2.0	0.0.0 (0.0.0)	0.2.0	1.0.0	0.0.0	0.0.0	0.2.0	0.2.0
		BERLIN-TIERPARK	1.2.0	1.0.1 (0.0.1)	0.1.0	1.0.0	0.0.0	0.0.0	0.0.0	1.3.0
		BERLIN-ZOO	2.4.0	0.0.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.0.0	1.3.0
*		BEWDLEY	1.0.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.0.0
		BRNO	1.3.0	0.1.0 (0.0.0)	1.1.0	0.1.0	0.0.0	1.0.0	0.0.0	1.4.0
		BUSSOLENGO	1.3.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	1.0.0	0.0.0	1.3.0
		CABARCENO	0.5.0	0.0.0 (0.0.0)	0.5.0	0.0.0	0.0.0	0.0.0	0.0.0	0.10.0
		CHESTER	4.0.0	0.0.0 (0.0.0)	4.0.0	3.0.0	0.0.0	0.0.0	0.0.0	5.0.0
*		DOMPIERRE	0.0.0	0.0.0 (0.0.0)	4.0.0	0.0.0	0.0.0	0.0.0	0.0.0	4.0.0
*		DOUE-FONTAINE	0.0.0	0.0.0 (0.0.0)	0.2.0	0.0.0	0.0.0	0.0.0	0.0.0	0.2.0
		DVUR-KRALOVE	12.19.0	3.8.0 (0.3.0)	0.1.0	3.2.0	0.0.0	4.2.0	1.1.0	7.20.0
		EDINBURGH	2.2.0	0.1.0 (0.0.0)	1.1.0	2.0.0	0.0.0	0.0.0	0.1.0	1.3.0
		FRANKFURT	1.1.0	0.0.0 (0.0.0)	0.5.0	1.1.0	0.0.0	0.0.0	0.0.0	0.5.0
		HILVARENBEEK	2.8.0	2.0.0 (1.0.0)	1.1.0	2.3.0	0.0.0	0.0.0	1.1.0	1.5.0
		JURQUES	4.0.0	0.0.0 (0.0.0)	2.0.0	0.0.0	0.0.0	0.0.0	4.0.0	2.0.0
		KATOWICE	1.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0
		KOLMARDEN	4.2.0	1.0.0 (0.0.0)	1.0.0	1.0.0	0.0.0	0.0.0	1.0.0	4.2.0
		KOLN	6.0.0	0.0.0 (0.0.0)	3.0.0	3.0.0	0.0.0	0.0.0	1.0.0	5.0.0
		LEIPZIG	2.9.0	0.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	1.1.0	0.8.0
		LES-MATHES	2.5.0	0.1.0 (0.0.0)	0.2.0	1.0.0	0.0.0	0.0.0	0.2.0	1.6.0
		LISBOA-ZOO	1.4.0	4.0.0 (2.0.0)	1.2.0	0.2.0	0.0.0	0.0.0	0.0.0	4.4.0
*		LYMPNE	0.0.0	0.0.0 (0.0.0)	3.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.0.0
		LYON	4.0.0	0.0.0 (0.0.0)	1.0.0	1.0.0	0.0.0	0.0.0	4.0.0	0.0.0
		MAGDEBURG	1.2.0	0.2.0 (0.1.0)	0.0.0	1.3.0	0.0.0	0.0.0	0.0.0	0.0.0
		MARWELL	1.16.0	2.2.0 (0.0.0)	0.0.0	0.4.0	0.0.0	0.0.0	1.2.0	2.12.0
		MECHELEN	1.6.0	0.0.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	0.0.0	1.5.0
		MONTPELLIER	4.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	3.0.0
		MOSKVA	0.1.0	0.0.0 (0.0.0)	1.1.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		MULHOUSE	4.3.0	0.3.0 (0.0.0)	1.0.0	3.3.0	0.0.0	0.0.0	1.0.0	1.3.0
		NURNBERG	3.3.0	2.0.0 (0.0.0)	0.0.0	0.1.0	0.0.0	2.0.0	1.0.0	2.2.0
*		NYIREGYHAZA	0.0.0	0.0.0 (0.0.0)	2.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.0.0
		ODENSE	1.5.0	1.2.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	1.3.0	1.3.0
		OSNABRUCK	4.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	4.0.0
		OSTRAVA	3.4.0	0.0.0 (0.0.0)	1.0.0	2.1.0	0.0.0	1.0.0	0.0.0	1.3.0
		PARIS-ZOO	1.2.0	1.0.0 (0.0.0)	0.0.0	2.0.0	0.0.0	0.0.0	0.0.0	0.2.0
		POZNAN	1.3.0	2.2.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.0.0	2.4.0
		PRAHA	1.2.0	0.1.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	0.3.0
		RAMAT-GAN	1.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0
		ROMA	2.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.0.0
		ROMANECHE	1.3.0	0.0.0 (0.0.0)	1.1.0	0.0.0	0.0.0	0.0.0	1.1.0	1.3.0
		SALZBURG-ZOO	4.0.0	0.0.0 (0.0.0)	4.0.0	1.0.0	0.0.0	0.0.0	3.0.0	4.0.0
		SIGEAN	4.7.0	3.0.1 (0.0.1)	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0	6.5.0
		ST-AIGNAN	3.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	2.0.0
		STUTTGART	1.4.0	1.1.0 (1.1.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	1.5.0



## Grevy's zebra EEP Annual Report 2007 - 2008



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*	TABERNAS	1.0.0	0.0.0 (0.0.0)	2.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.0.0
	WHIPSNADE	2.8.0	0.0.0 (0.0.0)	0.0.0	1.2.0	0.0.0	0.0.0	0.0.0	1.6.0
	WOBURN	3.4.0	2.1.0 (0.0.0)	0.0.0	2.0.0	0.0.0	0.0.0	0.0.0	3.5.0
	Total (53)	109.158.0	32.30.2 (5.7.2)	41.27.0	41.27.0	0.0.0	9.2.0	29.18.0	98.161.0

### Discrepancy notes

Grevy's zebra  
*Equus grevyi*

BEWDLEY Had one stallion already in 2006, then joined EAZA/EEP in 2008.  
TABERNAS Had one stallion already, joined EAZA/EEP in 2008

### Summary

The Grevy's zebra EEP remains a stable and well functioning programme. The population is demographically and genetically healthy and cooperation between most institutions and the coordinator is very good. Strict adherence to recommendations, including temporary non-breeding recommendations, will ensure that this trend continues.



# Turkmenian kulan

## EEP Annual Report 2007 - 2008



### 1. Programme information

Turkmenian kulan

*Equus hemionus kulan*

**EEP established in 1989.**

#### Goal(s)

Percentage of gene diversity 90% saved in 100 years.

Target population size A= 150 and B= 100

#### Additional comments

The main goal is finding zoos interested in keeping and breeding kulans. We need more young kulans to assure the future of the EEP population. The EEP is fortunate to cooperate with Askania Nova which is always offering potentially new founders.

### 2. Programme personnel

#### Species Coordinator

Anna Mekarska (Krakow)

#### Species Committee members

Claus Pohle (Berlin-tierpark)

Martin Krug (Bratislava)

Paula Holma (Helsinki)

### 3. Activities

#### Species Committee

Last election: 2004

Last meeting: 14 September 2007 Warszawa

#### Conservation activities

In the wild there is no project to support Turkmenian kulans populations at the moment. WWF Russia is acting in Turkmenistan, even in Badkhyz Natural Reserve, but they are concentrating on other species. Hopefully their anti-poaching activities are protecting the kulan population as well. A project focusing on kulan is now in preparation by this organisation and is expecting financial support through the EEP.

#### Research activities

In 2007 the Martin Luther University - Halle Wittenberg, in Halle Saale has edited the tenth volume of "Exploration into the biological Resources of Mongolia". This volume concentrates on Asiatic wild asses, mostly *Equus hemionus hemionus*, but there are also articles about Turkmenian kulans:

- Lukarevski, V. S. and Y. K. Gorelov Kulan (*Equus hemionus Pallas 1775*) in Turkmenistan, Exploration into the Biological Resources of Mongolia, 10:231-240.
- Mekarska, A. Turkmenian kulan captive population, Exploration into the Biological Resources of Mongolia, 10:241-242.
- Bahloul, K., Pereladova, O. B., Soldatova, E., Sidorenko, E., Sempere, A. J. Semi-wild population of kulans in the Bukhara Breeding Centre and their co-habitation with Przewalski's horses, , Exploration into the Biological Resources of Mongolia, 10:243-252.

### 4. Publications

#### Studbook

Recent edition: 2008

Next edition: 2009

#### Husbandry guidelines

Published in 2000.

## 5. Status

### Status and developments over the year 2007 - 2008

Turkmenian kulan  
*Equus hemionus kulan*

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		ALMATY	0.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0
		ASKANIYANOVA_NE	0.0.103	0.0.52 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.11	0.0.144
		BERLIN-TIERPARK	1.2.0	1.1.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	1.3.0
		BOJNICE	0.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.2.0
		BRATISLAVA	1.5.0	2.2.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	3.6.0
		BRNO	0.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	0.1.0
		CHEMNITZ	1.2.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	1.0.0	1.2.0
		ESTEPONA	1.2.0	1.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.2.0
		HELSINKI	0.3.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	1.1.0	0.2.0
		HILVARENBEEK	1.2.0	1.1.0 (1.1.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
*		HORTOBAGY_NE	0.3.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	1.1.0	0.2.0
		KAUNAS	2.1.0	0.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		KLEVE_NE	1.3.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	1.0.0	1.3.0
		KOLMARDEN	1.4.0	3.0.0 (1.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.2.0	3.2.0
		KRAKOW	2.3.0	0.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	2.3.0
		LODZ	1.1.0	1.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.1.0
		MYKOLAYIV	2.3.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.3.0
		NURNBERG	0.5.0	1.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.1.0	2.4.0
		OPOLE	0.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.2.0
		PRAHA	0.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.2.0
		ROMA	2.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.1.0
		ROSTOCK	1.2.0	1.0.0 (1.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
*		STRALSUND_NE	1.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		TALLINN	3.9.0	2.4.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	1.0.0	3.13.0
		ZAGREB	1.5.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.5.0
		Total (25)	22.67.103	13.9.52 (3.1.0)	5.0.0	3.0.0	0.0.0	0.0.0	5.8.11	29.67.144
*		Non-EAZA Institutions (3)	4.25.0	3.3.0 (0.0.0)	1.0.0	3.0.0	0.0.0	0.0.0	0.2.0	5.26.0

### Discrepancy notes

Turkmenian kulan  
*Equus hemionus kulan*

BERLIN-TIERPARK	The status on 1 January 2007 is 1.2.0 instead of 2.2.0 as listed on 31 December 2006.
Non-EAZA Institutions (3)	Status for the non EAZA institutions as per 31.12.2008 is: Hodenhagen 3.20 Kosice 1.4 Miskolc 1.2

### Summary

127 Turkmenian kulans have been exhibited in 28 European and Asian zoos (EAZA / EEP members and also in non EAZA zoos) at the end of the year 2008. The population numbers have decreased in the past years. Non EAZA/EEP zoos are participating in this program because of genetic needs and lack of interest among EAZA zoos. Askania Nova held a total of 144 kulans at the end of 2008.

In 2008 seven zoos bred this species, namely: Tallinn Zoo, Krakow Zoo, Safari Beekse Bergen - Hilvarenbeek, Lodz Zoo, Nurnberg Zoo, Rostock Zoo and Bratislava Zoo. Thirteen individuals were born and 11 fowls have been successfully reared (85%) in six zoos (Tallinn Zoo, Krakow Zoo, Lodz Zoo, Nurnberg Zoo and Bratislava Zoo). Eleven births are still too few but fortunately only seven animals died in EEP in 2007-2008.

The demographic structure is far from ideal and it can be easily seen that the number of kulans must increase, and therefore new holders are needed. If new breeding groups are not created in the near future, the kulan population is likely not to survive in EAZA zoos.

Unfortunately not all transfer recommendations for 2007 / 2008 have been realised. In 2008 only three kulans were transferred. It is expected that new kulan groups will be finally created in Edinburgh, Helsinki and Opole in 2009.

Genetic analyses of the EEP population show that 93% of pedigree is known. The part that is not known results from unmarked animals in some



**Turkmenian kulan**  
**EEP Annual Report 2007 - 2008**



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zoos. It is stressed once again that all participants must mark their kulans!



Persian onager  
EEP Annual Report 2007 - 2008



**1. Programme information**

Persian onager

*Equus hemionus onager*

**EEP established in 1989.**

**Goal(s)**

Percentage of gene diversity 90% saved in 100 years.

**2. Programme personnel**

**Species Coordinator**

Stephan Hering-Hagenbeck (Hamburg)

**Species Committee members**

Barbara Jantschke (Augsburg)

Waltraut Zimmermann (Köln)

David Field (London)

Angela Glatston (Rotterdam)

**3. Activities**

**Species Committee**

Last election: 2004

Last meeting:

**Conservation activities**

Not specified.

**Research activities**

Not specified.

**4. Publications**

**Studbook**

Recent edition: 2008

Next edition: 2010

**Husbandry guidelines**

Published in 2000.



Persian onager  
EEP Annual Report 2007 - 2008



5. Status

Status and developments over the year 2007 - 2008

Persian onager  
*Equus hemionus onager*

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		AUGSBURG	1.4.0	0.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.5.0
		BANDHOLM	1.2.0	0.1.0 (0.0.0)	0.1.0	0.1.0	0.0.0	0.0.0	0.2.0	1.1.0
		BUDAPEST	0.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0
		CHESTER	1.3.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.3.0
		CHOMUTOV	2.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	1.0.0
*		EBELTOFT	0.0.0	0.0.0 (0.0.0)	2.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.0.0
		HAMBURG	2.3.0	2.0.0 (0.0.0)	0.1.0	1.1.0	0.0.0	0.0.0	1.0.0	2.3.0
		HILVARENBEEK	3.0.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	1.0.0	3.0.0
		KOLN	1.5.0	1.1.0 (0.0.0)	0.2.0	0.1.0	0.0.0	0.0.0	0.3.0	2.4.0
		MONTPELLIER	2.7.0	4.5.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.1.0	5.10.0
		OBERWIL	2.2.0	2.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	1.0.0	2.2.0
		OVERLOON	1.2.0	0.2.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.3.0	1.1.0
		PARIS-ZOO	0.1.0	0.0.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0
		ROTTERDAM	1.1.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.1.0	1.1.0
		SIGEAN	2.5.0	1.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	2.5.0
		STUTTGART	1.3.0	0.2.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.2.0	1.3.0
		WHIPNADE	1.2.0	1.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	2.2.0
		Total (17)	21.41.0	11.13.0 (0.0.0)	3.5.0	3.5.0	0.0.0	0.0.0	5.13.0	27.41.0

Summary

Not specified.



# Hartmann's mountain zebra

## EEP Annual Report 2007 - 2008



### 1. Programme information

Hartmann's mountain zebra

*Equus zebra hartmannae*

**EEP established in 1992.**

#### Goal(s)

Percentage of gene diversity 82% saved in 100 years.

Target population size A= 134 and B= 150

#### Additional comments

The current gene diversity is too low to maintain 90% over 100 years, but can maintain 82%.

However, the main goal of this captive population should be to assess correct social management regimes to successfully breed this species in captivity. The wild population has only 9000 adult individuals left and is most likely declining. While this situation needs to be addressed in situ, the EEP should find a way to identify the reproductive and behavioural needs for this species to become successful breeders in a self-sustaining population before the wild population declines to a point where it has to rely on captive breeding.

### 2. Programme personnel

#### Species Coordinator

Tanya Langenhorst (Marwell)

#### Species Committee members

Claus Pohle (Berlin-tierpark)

Darren Webster (Blackpool)

Ludek Culik (Dvur-kralove)

Jens-Ove Heckel (Landau)

Beatrix Kohler (Munchen)

Heike Weber (Nordhorn)

Neil Bemment (Paignton)

Wiktor Zduniak (Plock)

### 3. Activities

#### Species Committee

Last election: 2005

Last meeting: 15 September 2007 Warszawa

#### Conservation activities

Two projects are at present known to the studbook:

- 1) a pilot project " identifying key conservation management areas for Hartmann's mountain zebras in the Kunene region of Northwestern Namibia" (Minnesota Zoo).
- 2) "Conservation research on Hartmann's mountain zebra and their Nama Karoo habitat in Namibia" (Prof. Dr. Morris Gosling)

#### Research activities

In 2007 the EEP carried out a survey on sarcoids in Hartmann's mountain zebra. This condition seems to affect Hartmann's zebra disproportionately more than other zebra species in captivity.

Treatment is to this day still not 100% succesful and further research is needed in this field.

The results of the survey can be requested from the EEP coordinator as a PDF file.

### 4. Publications

#### Studbook

Recent edition: 2008

Next edition: 2009

#### Husbandry guidelines

Published in 2000.



## Hartmann's mountain zebra EEP Annual Report 2007 - 2008



### 5. Status

#### Status and developments over the year 2007 - 2008

Hartmann's mountain zebra  
*Equus zebra hartmannae*

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		ALMATY	1.2.0	1.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.2.0
		BERLIN-TIERPARK	1.7.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	1.6.0
		BLACKPOOL	1.1.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		BOJNICE	1.3.0	0.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	1.3.0
		DVUR-KRALOVE	1.11.0	0.0.0 (0.0.0)	1.0.0	0.2.0	0.0.0	0.0.0	1.0.0	1.9.0
		HANNOVER	1.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		HERBERSTEIN	1.1.0	1.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	2.2.0
		LANDAU	2.0.0	0.0.0 (0.0.0)	3.0.0	1.0.0	0.0.0	0.0.0	2.0.0	2.0.0
*		LINTON	0.0.0	0.0.0 (0.0.0)	1.2.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		MARWELL	0.3.0	0.0.0 (0.0.0)	1.2.0	0.2.0	0.0.0	0.0.0	1.0.0	0.3.0
		MUNCHEN	2.4.0	1.1.0 (0.0.0)	0.0.0	1.2.0	0.0.0	0.0.0	0.0.0	2.3.0
		NORDHORN	1.1.0	0.0.1 (0.0.1)	1.1.0	1.0.0	0.0.0	0.0.0	1.1.0	0.1.0
		OPOLE	1.2.0	1.1.0 (1.1.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	0.2.0
		OVERLOON	1.1.0	0.0.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.0.0	0.0.0
		PAIGNTON	1.3.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.2.0	1.2.0
		PLOCK	1.2.0	0.1.0 (0.0.0)	1.0.0	1.0.0	0.0.0	0.0.0	0.1.0	1.2.0
		SIGEAN	3.3.0	2.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0	4.2.0
		USTI-NAD-LABEM	3.9.0	2.1.0 (0.0.0)	0.0.0	2.1.0	0.0.0	0.0.0	0.0.0	3.9.0
		WROCLAW	3.3.0	1.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	1.0.0	0.2.0	2.1.0
		Total (19)	25.58.0	9.5.1 (1.1.1)	9.8.0	9.8.0	0.0.0	1.0.0	6.9.0	26.53.0

#### Summary

As in previous years the Hartmann's zebra EEP is still suffering from low recruitment and losses of important animals. There is also a lack of experienced breeding stallions which means that not all female groups can actually breed. This reduces recruitment even further.

Participants are asked to be patient when receiving new animals as they can take a while to settle in and become breeders.

Further research into the behaviour and reproductive biology of this species in captivity is needed.